

Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
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EFS ID: 18254  
Application ID: 10065187  
Title of Invention: TEST KEY FOR DETECTING  
ELECTRICAL ISOLATION BETWEEN  
A WORD LINE AND A DEEP  
TRENCH CAPACITOR IN DRAM  
CELLS  
First Named Inventor: Chih-Cheng Liu  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2002-09-25  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: NAUP0472USA  
Digital Certificate Holder: cn=Winston Hsu, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: GKbFeFnt25t1NGiW7gky8A==  
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Payment Category: DA - Deposit Account  
Deposit Account Number: 500801  
Deposit Account Name: WINSTON HSU

# TRANSMITTAL FORM

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket  
Number:

NAUP0472USA

Submission Type: Utility  
Patent Filing

## TEST KEY FOR DETECTING ELECTRICAL ISOLATION BETWEEN A WORD LINE AND A DEEP TRENCH CAPACITOR IN DRAM CELLS

First Named Inventor: Chih-Cheng Liu

### SUBMITTED BY

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Date Signed: 20020925

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*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent*

*application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

**Attached Files:**

declaration	NAUP0472DEC1.TIF
declaration	NAUP0472DEC2.TIF
specification	NAUP0472.xml
patent-assignments	NAUP0472asgn.xml
fee-transmittal	NAUP0472fee.xml
bibb-transmittal	NAUP0472apds.xml

**Attached Image File(s):**

NAUP0472DEC1.TIF  
NAUP0472DEC2.TIF

Comments:

**PATENT**

Docket No : NAUP0472USA

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor , I hereby declare that :

I believe I am the sole (if only one name appears below) , or joint (if more than one name appears) , original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled :

**"TEST KEY FOR DETECTING ELECTRICAL ISOLATION BETWEEN A WORD LINE AND A DEEP TRENCH CAPACITOR IN DRAM CELLS"**

  +   The specification for the above entitled invention is filed herewith.

       The specification for the above entitled invention was filed previously

with application serial number:                      Filing Date:                     

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of the invention disclosed in this application in accordance with Title 37, Code of Federal Regulations, Section 1.56 (a). I further acknowledge the duty in any continuation-in-part application to disclose to the Patent and Trademark Office all information known to be material to the patentability of the invention disclosed in this application, as defined in 1.56, which became available to me between the filing date of the prior application and the filing date of this application.

**PRIORITY CLAIM**

  +   There is no claim of priority

       Claim of priority is based on the following:

\_\_\_\_\_  
\_\_\_\_\_

**POWER OF ATTORNEY**

As a named inventor, I hereby appoint the following attorneies to prosecute this application and to transact all related business in the Patent and Trademark Office:

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## DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued hereon.

Date: 2002/6/1 Chih - cheng Liu  
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# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 780**

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 500801



Deposit Account Name: NORTH AMERICA INTERNATIONAL PATENT OFFICE

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

## SUBMITTED BY

Authorized Name: WINSTON HSU  
Electronic Signature Mark: VAEB-JMXX-8IIL  
Date Signed: 20020925

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 15	103	\$ 18	0	\$ 0
Independent Claims: 3	102	\$ 84	0	\$ 0

Subtotal For Extra Claims Fees: \$ 0

## ADDITIONAL FEES

Fee Description	Number	Quantity	Fee Code	Amount	Fee Paid
Recording Each Patent Assignment Per Property Fee	00000000	1	581	\$ 40	\$ 40

Subtotal For Additional Fees: \$ 40